

ABSTRACT OF THE DISCLOSURE

A wind powered generating device comprises a tube cluster, a collector assembly, and a turbine assembly. The collector assemblies utilize sails that can be rotated in the direction of the wind to direct wind down through an inlet tube to a central outlet tube. The central outlet tube is narrowed at a portion, and a turbine is mounted at this narrowed portion to take advantage of the venturi effect, which accelerates the air as it passes the turbine. This permits reliable and efficient operation in areas that were not formerly windy enough to be economically feasible. Alternative embodiments of the invention include mechanisms for dealing with violent weather conditions, a first of which allows excess wind to bleed off behind and between the sails, and a second which collapses and covers the sails with a protective sheath/sock.

CHI1 #83268 v1